

CLAIMS

What is claimed is:

1. A network for providing a telecommunications service with automatic speech recognition to a telecommunications user, comprising:

a switch in communication with a telecommunications device associated with the telecommunications user for detecting a terminating trigger specific to the telecommunications service in response to an incoming communication to the telecommunications device from a calling party; and

an intelligent resource server in communication with the switch for receiving the incoming communication from the switch, for placing an outgoing communication to the telecommunications device via the switch, the outgoing communication including an audible message identifying the calling party, and for automatically recognizing a predetermined keyword spoken by the telecommunications user in response to the outgoing communication.

2. The network of claim 1, wherein the switch includes an SSP switch of a central office in communication with the telecommunications device via a subscriber line.

3. The network of claim 1, wherein the switch includes a switch of a mobile switching center in communication with the telecommunications device via an air-interface communication scheme.

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4. The network of claim 1, further comprising a service control point in communication with the switch.

5. The network of claim 4, wherein:
the switch is further for sending a query message to the service control point in response to detecting the terminating trigger; and
the service control point is for returning a message to the switch to route the incoming communication to the intelligent resource server.

6. The network of claim 5, wherein the service control point is further for returning the message to the switch to route the incoming communication to the intelligent resource server based on a determination of whether the telecommunications user is a subscriber of the telecommunications service.

7. The network of claim 1, wherein the intelligent resource server is further for processing the incoming communication based on recognition of the predetermined keyword.

8. The network of claim 7, wherein the intelligent resource server is further for forwarding the incoming communication to the telecommunications device based on recognition of a first predetermined keyword.

9. The network of claim 8, wherein the intelligent resource server is further for forwarding the incoming communication to a messaging system associated with the telecommunications user based on recognition of a second predetermined keyword.

10. A network for providing a telecommunications service with automatic speech recognition to a telecommunications user, comprising:

a switch in communication with a telecommunications device associated with the telecommunications user for detecting a terminating trigger specific to the telecommunications service in response to an incoming communication to the telecommunications device from a calling party;

a call processing module in communication with the switch for receiving the incoming communication from the switch and for placing an outgoing communication to the telecommunications device via the switch, the outgoing communication including an audible message identifying the calling party; and

an automatic speech recognition module in communication with the switch for recognizing a predetermined keyword spoken by the telecommunications user in response to the outgoing communication.

11. The network of claim 10, wherein the switch includes a switch of a central office in communication with the telecommunications device via a subscriber line.

12. The network of claim 10, wherein the switch includes a switch of a mobile switching center in communication with the telecommunications device via an air-interface communication scheme.

13. The network of claim 10, further comprising a service control point in communication with the switch.

14. The network of claim 13, wherein:
the switch is further for sending a query message to the service control point in response to detecting the terminating trigger; and
the service control point is for returning a message to the switch to route the incoming communication to the call processing module.

15. The network of claim 14, wherein the service control point is further for returning the message to the switch to route the incoming communication to the call processing module based on a determination of whether the telecommunications user is a subscriber of the telecommunications service.

16. The network of claim 10, wherein the call processing module is further for processing the incoming communication based on recognition of the predetermined keyword by the automatic speech recognition module.

17. The network of claim 16, wherein the call processing module is further for forwarding the incoming communication to the telecommunications device based on recognition of a first predetermined keyword by the automatic speech recognition module.

18. The network of claim 17, wherein the call processing module is further for forwarding the incoming communication to a call messaging system associated with the telecommunications device based on recognition of a second predetermined keyword by the automatic speech recognition module.

19. The network of claim 10, further comprising an enunciation module in communication with the switch for playing the audible message identifying the calling party.

20. The network of claim 10, further comprising a DTMF decoder module in communication with the switch for recognizing a predetermined DTMF character entered by the telecommunications user in response to the outgoing communication.

21. The network of claim 20, wherein the call processing module is further for processing the incoming communication based on recognition of the predetermined DTMF character by the DTMF decoder module.

~~22.~~ An intelligent resource server for providing a telecommunications service with automatic speech recognition for a telecommunications user, comprising:

a call processing module for receiving from a switch in communication with a telecommunications device associated with the telecommunications user an incoming communication to the telecommunications device from a calling party, and for placing an outgoing communication to the telecommunications device via the switch, the outgoing communication including an audible message identifying the calling party; and

an automatic speech recognition module in communication with the call processing module for recognizing a predetermined keyword spoken by the telecommunications user in response to the outgoing communication.

23. The intelligent resource server of claim 22, wherein the call processing module is further for forwarding the incoming communication to the telecommunications device based on recognition of a first predetermined keyword by the automatic speech recognition module.

24. The intelligent resource server of claim 23, wherein the call processing module is further for forwarding the incoming communication to a messaging system associated with the telecommunications user based on recognition of a second predetermined keyword by the automatic speech recognition module.

25. The intelligent resource server of claim 22, further comprising an enunciation module in communication with the call processing module for playing the audible message identifying the calling party.

26. The intelligent resource server of claim 22, further comprising a DTMF decoder module in communication with the switch for recognizing a predetermined DTMF character entered by the telecommunications user in response to the outgoing communication.

27. The network of claim 26, wherein the call processing module is further for processing the incoming communication based on recognition of the predetermined DTMF character by the DTMF decoder module.

28. A method for providing a telecommunications service with automatic speech recognition to a telecommunications user, comprising:

detecting an incoming communication from a calling party to the telecommunications user;

placing an outgoing communication to the telecommunications user identifying the calling party in response to detection of the incoming call; and

automatically recognizing a predetermined keyword spoken by the telecommunications user in response to the outgoing message.

29. The method of claim 28, wherein placing an outgoing communication includes placing an outgoing communication to the telecommunications user identifying the calling party when it is determined that the telecommunications user is a subscriber of the telecommunications service.

30. The method of claim 28, further comprising processing the incoming communication based on recognition of the predetermined keyword.

31. The method of claim 30, wherein processing the incoming communication includes routing the incoming communication to the telecommunications user based on recognition of a first predetermined keyword.

32. The method of claim 31, wherein processing the incoming communication includes routing the incoming communication to a messaging system associated with the telecommunications user based on recognition of a second predetermined keyword.

33. The method of claim 28, further comprising recognizing a predetermined DTMF character entered by the telecommunications user in response to the outgoing communication.

34. The method claim 33, further comprising processing the incoming communication based on recognition of the predetermined DTMF character.

35. A network for providing a telecommunications service with automatic speech recognition to a telecommunications user, comprising:

means for detecting an incoming communication from a calling party to the telecommunications user;

means for placing an outgoing communication to the telecommunications user identifying the calling party in response to detection of the incoming call; and

means for automatically recognizing a predetermined keyword spoken by the telecommunications user in response to the outgoing message.

36. The network of claim 35, further comprising means for recognizing a predetermined DTMF character entered by the telecommunications user in response to the outgoing communication.

37. The network of claim 35, further comprising means for processing the incoming communication based on recognition of the predetermined keyword.

38. The network of claim 37, wherein the means for processing includes means for routing the incoming communication to the telecommunications user based on recognition of a first predetermined keyword.

39. The network of claim 38, wherein the means for processing includes means for routing the incoming communication to a messaging system associated with the telecommunications user based on recognition of a second predetermined keyword.